

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/736,568	10/736,568 12/17/2003		Norihito Tsukahara	2003_1827	4502
513	7590	05/19/2005		EXAM	INER
		ID & PONACK, L	EVERHART	EVERHART, CARIDAD	
2033 K STR SUITE 800	EET N. W	<i>/</i> .	ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006-1021				2891	

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			A·H					
		Application No.	Applicant(s)					
		10/736,568	TSUKAHARA ET AL.					
Office Action Summary		Examiner	Art Unit					
		Caridad M. Everhart	2891					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Experiod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status								
1)□	Responsive to communication(s) filed on		-					
2a) <u></u>	This action is FINAL. 2b)⊠ This	action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	Claim(s) 1-15 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	Claim(s) <u>1-6,11 and 12</u> is/are allowed.							
6)⊠	Claim(s) <u>7-10 and 13-15</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction and/o	r election requirement.						
Applicat	ion Papers		· .					
9) The specification is objected to by the Examiner.								
10)[D) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Oo Some Source of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen		_						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail D						
3) X Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)					
	er No(s)/Mail Date 12-17-03, 10-29-04	6) Other:						

Art Unit: 2891

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite in that it fails to point out what is included or excluded by the claim language. This claim is an omnibus type claim. The claims do not recite sufficient structure or device limitations.

Drawings

Figures 18-21 and 41-48 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/736,568

Art Unit: 2891

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 13 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Chakravorty(US 6,181,569B1).

Chakravorty discloses chips which are mounted on a substrate and which have circuit pattern which is electrically connected to the semiconductor device (Fig. 6 and col. 1, lines 13-17) and in which the device is connected by bumps which may be made of a conductive paste (col. 9, lines 10-16). Chakravorty discloses inserting the semiconductor device into the base material with the bump exposed (col. 10, lines 27-35 and Fig. 8c) and forming contact area increasing portions (it is seen in Fig. 8c that the contact portion of the bump is increased from its original contact portion seen in Fig. 8b). With respect to claim 14, the device taught by Chakravorty satisfies the limitations because claim 14 is a product-by-process claim, which is limited not by the process steps but by the resulting structure.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chakravorty as applied to claim 13 above.

Chakravorty is silent with respect to a card.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have applied the method taught by Chakravorty to the making of a card, as the use of chips in the formation of smart cards is conventional in the art and because Chakravorty teaches that the device may be made by lamination (col. 13, lines 62-67 and col. 14, lines 1-5) of polymeric films, which is a technique used in the making of cards. In addition, Chakravorty provides a chip package which yields compact packages(col. 4,lines 42-46), which is required for the making of cards. In addition, Chakravorty discloses that the package is the same size as the chip(col. 14, lines 45-50) and that the bumps are embedded in the polymeric film(col. 15, lines 5-10), which would make the chip package useful in the formation of cards, as would be obvious to one of ordinary skill in the art.

Allowable Subject Matter

Claims 1-6, 11, and 12 are allowed.

Art Unit: 2891

The prior art of record does not teach all of the limitations of the allowable claims, especially the extension-forming member.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 571-272-1892. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, B. Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CARIDAD EVERHALIT PRIMARY EXAMINED

C. Everhart 5-16-2005